#### **DEPARTMENT OF LAND RESOURCES**

Mr. Adam Black, Department Chair

Professor: R. Gazal

**Associate Professors:** A. Black, B. Perkins **Assistant Professor:** N. Nasseri, J. Petry

Lecturers: D. Hupp

The Department of Land Resources prides itself on a "hands on" approach to learning. Students are provided a learning experience that duplicates as closely as possible real-world applications. Two Associate of Science degree programs are offered, Forest Technology and Land Surveying. Two baccalaureate degree programs are also offered, Land Surveying and Mapping and Natural Resource Management. The Land Surveying and Mapping degree provides a pathway for A.S. students to receive their bachelor's degree. The Natural Resource Management degree is developed around the general education baccalaureate degree component, a Natural Resource Management core, major and a block elective component. The five degree majors are Criminal Justice, Energy and Land Management, Environmental Science, Forest Technology, and Wildlife Management.

The Department of Land Resources is housed in the Waco Center about one mile from the main campus. The department has about 300 acres of land adjacent to the building for outdoor projects. A sawmill is located on the property for student use along with storage buildings for timber harvesting equipment. A modern computer lab is available for use by students. This lab contains computers, plotters, and software that replicate those used in government, business, and industry. A wide array of hand tools, equipment, and forestry and land surveying instruments appropriate for teaching field labs are used to enhance instruction and learning. Global Positioning Systems (GPS) and Geographic Information Systems (GIS) technologies are used in several classes.

Student organizations include the Environmental Science Club, Forestry Club, and the Land Surveying Club. These groups promote camaraderie and provide opportunities for field trips, learning opportunities and community service.

Several scholarships are available specifically to students who are enrolled in the Land Resource programs.

For additional information about the Department of Land Resources, its programs, faculty and organizations, call (304) 462-6370.

#### **Degree Programs:**

#### Bachelor of Science in Land Surveying and Mapping with a major in:

• Land Surveying and Mapping

#### Bachelor of Science in Natural Resource Management with majors in:

- Criminal Justice
- Energy and Land Management
- Environmental Science
- Forest Technology
- Wildlife Management

#### Associate of Science in Forest Technology with a major in:

Forest Technology

### Associate of Science in Land Surveying with a major in:

Land Surveying

#### Minors:

- Environmental Science
- Natural Resource Management

#### **Certificates:**

- GIS
- Right-of-Way

#### **Bachelor Degree Programs**

The Land Surveying and Mapping degree program has an active advisory committee comprised of representatives from government, business, and industries that hire Glenville State University graduates. This advisory committee ensures courses are continually updated and help greatly with job placement for graduates.

The baccalaureate in Land Surveying and Mapping degree program provides the student with the opportunity to pursue the following major:

Land Surveying and Mapping – This major provides a pathway for associate degree students in land surveying to continue their education for a baccalaureate degree. Students will be technically proficient in land surveying and will be able to develop a strong major in geographic information systems and resource allocation for careers with government agencies and the private sector. This degree will also provide the baccalaureate degree necessary for licensure as a professional land surveyor.

The NRMT program has an active advisory committee comprised of representatives from government, business and industries that hire Glenville State University graduates. This advisory committee ensures courses are continually updated and help greatly with job placement for graduates.

The NRMT – Forest Technology program is listed on the Southern Regional Educational Board's (SREB) Academic Common Market and is available to out-of-state students subject to provisions of the Academic Common Market. This allows qualifying out-of-state students to attend Glenville State University at the in-state tuition rate. The baccalaureate Natural Resource Management degree program provides the student with the opportunity to develop a major in one of the following areas:

**Criminal Justice** – This major is designed for those students who want to become Conservation or Natural Resources Police Officers or other enforcement personnel in the natural resource area.

Energy and Land Management — The Energy and Land Management major is designed for students interested in working in energy and land use development, management and planning. Graduates of this program are able to find a large number of career opportunities with federal government agencies, such as U. S. Department of Transportation and the Bureau of Land Management. At the state level, graduates qualify for opportunities with the Department of Environmental Protection and Division of Highways and others. Additionally, graduates qualify for private industry positions including, but not limited to, oil and gas landman, realty specialist, right-of-way agent and title abstractor.

**Environmental Science** – This major is designed for those students interested in environmental careers with government agencies and industry. The Environmental Science major prepares students for career opportunities in the private, public, academic and nonprofit sectors. Employers may include Federal, state, and local governments; the natural resource sector; utilities; manufacturers; and industry, as well as small business.

**Forest Technology** – This major provides a pathway for associate degree students in forest technology to continue their education and receive the baccalaureate degree. Students broaden their perspectives in the natural resource area for careers with government agencies as well as the private sector. Graduates have the necessary credentials to be registered as a professional forester and practice forestry in West Virginia as a technician or professional.

Wildlife Management — This major is designed for students who want to pursue a career in wildlife management or an advanced degree in wildlife. Through the Wildlife Management major, students will acquire knowledge of the life history, habitat, and ecological requirements of important game and nongame wildlife, learn to identify, classify, and name important flora and fauna endemic to the Appalachian region, demonstrate and apply wildlife management techniques and methods, develop office and field skills in the use of geospatial technologies, computer software, and quantitative analysis, and develop wildlife management plans.

#### **Associate Degree Programs**

The associate degree programs have active advisory committees comprised of representatives from government, business and industries that hire graduates. These advisory bodies ensure that classes are continually updated and help greatly with job placement for graduates. Graduates receive the associate degree upon completion of their programs in forestry or land surveying.

**Forest Technology** — The University has offered an exemplary associate degree program in forest technology since 1968. This program is accredited by the Society of American Foresters. Graduates work in all aspects of forestry in the state and region. The main career pathways are procurement forestry, consulting forestry, state and federal government forestry agencies, and utility forestry.

**Land Surveying** – Glenville State University has been providing well-educated students for the land surveying profession since 1974. These graduates work in all aspects of surveying including; retracement, construction, route, mineral, and others. This curriculum is approved by the West Virginia Board of Professional Surveyors and the degree provides one of the six years required for licensure.

#### BACHELOR OF SCIENCE LAND SURVEYING AND MAPPING LAND SURVEYING AND MAPPING

GSU	100	The First Year Experience		0 Hour	
	All degree seeking students are required to take GSU 100 during their first semester.				
				30 Hours	
	General Education Requirement				
		implete MATH 115 and ENVR 101 as part of the General Education	n		
requiren	nents.				
Land S	urveving	and Mapping		71 Hours	
ENVR	101	Environmental Science		71 110413	
FRST	109	Dendrology	1		
FRST	216	Wood Identification	1		
LAND	121	Introduction to Land Surveying	3		
LAND	123	Land Survey Descriptions-Interpretations and Writing	2		
LAND	124	Land Survey Boundary Law	3		
LAND	193	Survey Math and Geomatics I	3		
LAND	197	Work Experience I	1		
LAND	230	Survey Math and Geomatics II	3		
LAND	231	Retracement Surveys	3		
LAND	232	Cartographic Surveying	3		
LAND	240	Route and Construction Surveys	4		
LAND	241	Energy Resource Surveying	2		
LAND	243	Intro to Drone Technology	2		
LAND	244	Remote Sensing and Aerial Photo Interpretation	1		
LAND	293	Survey Decisions/Professional Applications	4		
LAND	325	Computer Assisted Mapping for Surveyors	3		
LAND	331	GNSS in Surveying	3		
LAND	335	Hydrology, Drainage and Subdivision Design	3		
LAND	424	Advanced Survey Law	3		
LAND	443	Advanced Drone Technology	1		
LAND	493	Capstone	4		
MATH	115	College Algebra			
MATH	125	College Trigonometry	3		
NRMT	125	Computer Assisted Mapping	3		
NRMT	234	GIS Applications I	3		
NRMT	334	GIS Applications II	3		
PED	201	First Aid and Safety	1		
PED	301	Lifelong Wellness	1		
PHYS	209	General Geology (OR)			
SCNC	101	Earth Science	4		
General Electives (300-499 level)					
Total minimum hours required for degree				120 hours	
		GATEWAY ASSESSMENT – LAND 293			

**CAPSTONE ASSESSMENT – LAND 493** 

#### BACHELOR OF SCIENCE LAND SURVEYING AND MAPPING SUGGESTED PLAN OF STUDY

ENGL101	FRST 216
ENVR 101	MATH 125       3         NRMT 125       3         PED 301       1         Total Hours – Spring Semester       16
SUMME	•
LAND 1971	
SECOND Y	EAR
ENGL 102	LAND 240
LAND 443	LAND 331
FOURTH Y	TEAR
PHYS 209 (OR) SCNC 101	HIST 201, 202, 207 (OR) 208

#### BACHELOR OF SCIENCE NATURAL RESOURCE MANAGEMENT CRIMINAL JUSTICE

#### **GSU 100** The First Year Experience

0 hour

All degree seeking students are required to take GSU 100 during their first semester.

### **General Education Requirement**

30 hours

Students must complete BIOL 121, MATH 115, POSC 203, and PSYC 201 as part of the General Education requirements.

Natural Resource Management Core			
BIOL 121	Principles of Biology II		
BIOL 400	Ecology and Field Biology	4	
ENVR 352	Air/Water/Soil Quality	4	
ENVR 393	Environmental Compliance	3	
MGMT 201	Principles of Management	3	
NRMT 125	Computer Assisted Mapping	3	
NRMT 201	Forest Ecology	3	
NRMT 234	GIS Applications I	3	
NRMT 311	Natural Resource Permitting	3	
NRMT 334	GIS Applications II	3 3	
NRMT 493	Natural Resource Management	3	
~			40.7
Criminal Just	•	_	40 hours
CRJU 105	Interviewing & Report Writing	3	
CRJU 111	Introduction to Criminal Justice System	3	
CRJU 215	Crime Scene Management	3	
CRJU 222	Police Practices and Procedures	3	
CRJU 223	Corrections	3	
CRJU 230	Criminal Law	3	
CRJU 310	Criminal Justice Management	3	
CRJU 397	Work Experience II	1	
POSC 204	State and Local Government	3	
POSC 309	Civil Liberties	3	
PSYC 201	General Psychology		
PSYC 342	Multicultural Psychology	3	
WLMT 301	Wildlife Law & Policy	3	
	(Continued on next page)		

6

General Block Electives (select from the following)

Courses required for the NRMT Core and selected Major will not fulfill this requirement.

BIOL any 300-499 level course

BUSN 470 Business Law II

ENVR any 300-499 level course
HIST 303 West Virginia History
LAND any 300-499 level course
MGMT any 300-499 level course
NRMT any 300-499 level course
PHYS 310 General Astronomy

SAFE 327 Legal Aspects and General Safety

STAT any 300-499 level course WLMT any 300-499 level course

General Electives 18 hours

Total minimum hours required for degree

120 hours

GATEWAY ASSESSMENT - CRJU 230

**CAPSTONE ASSESSMENT – NRMT 493** 

# NRMT: CRIMINAL JUSTICE SUGGESTED PLAN OF STUDY

CRJU 111       3         ENGL 101       3         GSU 100       0         MATH 115       3         MGMT 201       3         GENERAL ELECTIVES       3         Total Hours – Fall Semester       15	BIOL 121
SECON	D YEAR
ART 200 (OR) MUSC 200       2         CRJU 222       3         ENGL 102       3         CRJU 105       3         GENERAL ELECTIVES       3         Total Hours – Fall Semester       14	CRJU 310
CRJU 397	MER OYEAR
NRMT 201       3         NRMT 234       3         PSYC 342       3         WLMT 301       3         GENERAL ELECTIVES       3         Total Hours – Fall Semester       15	ENVR 352
FOURT	TH YEAR
BIOL 400	ENVR 393       3         NRMT 311       3         NRMT 493       3         GENERAL ELECTIVES       3         BLOCK ELECTIVES (300-499 level)       3         Total Hours – Spring Semester       15

#### BACHELOR OF SCIENCE NATURAL RESOURCE MANGAMENT ENERGY AND LAND MANAGEMENT

## **GSU** 100 The First Year Experience

0 hour

All degree seeking students are required to take GSU 100 during their first semester.

### **General Education Requirement**

30 hours

Students must complete BIOL 121, GEOG 203, MATH 115, and POSC 203 as part of the General Education requirements.

Natural Resource Management Core			
BIOL 121	Principles of Biology II		
BIOL 400	Ecology and Field Biology	4	
ENVR 352	Air/Water/Soil Quality	4	
ENVR 393	Environmental Compliance	3	
MGMT 201	Principles of Management	3	
NRMT 125	Computer Assisted Mapping	3	
NRMT 201	Forest Ecology	3	
NRMT 234	GIS Applications I	3	
NRMT 311	Natural Resource Permitting	3	
NRMT 334	GIS Applications II	3	
NRMT 493	Natural Resource Management	3	
Energy and Lai	nd Management Major		56 hours
BUSN 193	Applied Business Communications	3	
BUSN 225	Business Ethics	3	
BUSN 270	Business Law I	3	
BUSN 470	Business Law II	3	
LAMN 193	Principles of Energy and Land Management	3	
LAMN 293	Landman Titles & Abstracting	3	
LAMN 397	Work Experience II	1	
LAND 121	Introduction to Land Surveying	3	
LAND 123	Land Survey Descriptions-Interpretation and Writing		
MGMT 484	Organizational Behavior	2 3	
NRMT 410	Energy Resource Law	3	
PHYS 209	General Geology	4	
(Continued on no	<del></del>		

General Block Electives (select from the following):

18

Courses required for the NRMT Core and selected Major will not fulfill this requirement.

BIOL any 300-499 level course

BUSN 470 Business Law II

ENVR any 300-499 level course
HIST 303 West Virginia History
LAND any 300-499 level course
MGMT any 300-499 level course
NRMT any 300-499 level course
PHYS 310 General Astronomy

SAFE 327 Legal Aspects and General Safety

STAT any 300-499 level course WLMT any 300-499 level course

Restricted Block Electives:

See Restricted Block Electives list at the end of this catalog section.

General Electives 2 hours

#### Total minimum hours required for degree

120 hours

## **GATEWAY ASSESSMENT - LAMN 293**

#### **CAPSTONE ASSESSMENT - NRMT 493**

Students in the Energy and Land Management Major are encouraged to complete the following:

#### **General Block Electives**

ENVR	351	Soil Science
LAND	335	Hydrology, Drainage, and Subdivision Design
MGMT	384	Human Resource Management
MGMT	487	Operations Management
WLMT	301	Wildlife Law and Policy

#### **Restricted Block Electives**

FRST	109	Dendrology II
1101	10)	Dendrology II

LAND 244 Remote Sensing and Aerial Photo Interpretation

# NRMT: ENERGY AND LAND MANAGEMENT SUGGESTED PLAN OF STUDY

ENGL 1013	ART 200 (OR) MUSC 200	2
GSU 1000	BIOL 121	4
LAMN 1933	CART 101	
MATH 1153	ENGL 102	3
NRMT 1253	LAMN 293	
GENERAL ELECTIVES2	Total Hours – Spring Semester	15
Total Hours – Fall Semester14	. 0	
SUM	MER	
LAMN 397 <b>1</b>		
SECON	D YEAR	
BUSN 2253	BUSN 193	3
BUSN 2703	ENVR 393	
GEOG 2033	LAND 123	2
LAND 1213	NRMT 234	
MGMT 2013	PHYS 209	4
Total Hours – Fall Semester15	RESTRICTED BLOCK ELECTIVE	2
	Total Hours – Spring Semester	17
THIRD	YEAR	
BIOL 4004	BUSN 470	3
NRMT 2013	ENGL 203, 204, 205 (OR) 206	
BLOCK ELECTIVE (300-499 level)6	ENVR 352	4
Total Hours – Fall Semester13	NRMT 311	3
	BLOCK ELECTIVE (300-499 level)	3
	Total Hours – Spring Semester	
FOURT	H YEAR	
MGMT 4843	HIST 201, 202, 207 (OR) 208	3
NRMT 3343	NRMT 493	3
NRMT 4103	RESTRICTED BLOCK ELECTIVES	
POSC 2033	(300-499 level)	2
BLOCK ELECTIVE (300-499 level)3	BLOCK ELECTIVES (300-499 level)	6
Total Hours – Fall Semester15	Total Hours – Spring Semester	14

#### BACHELOR OF SCIENCE NATURAL RESOURCE MANAGEMENT ENVIRONMENTAL SCIENCE

### **GSU** 100 The First Year Experience

0 hour

All degree seeking students are required to take GSU 100 during their first semester.

### **General Education Requirement**

30 hours

Students must complete BIOL 121, GEOG 203, MATH 115 and POSC 203 as part of the General Education requirements.

Natural Resource Management Core				
BIOL	121	Principles of Biology II		
BIOL	400	Ecology and Field Biology	4	
<b>ENVR</b>	352	Air/Water/Soil Quality	4	
<b>ENVR</b>	393	Environmental Compliance	3	
MGMT	201	Principles of Management	3	
NRMT	125	Computer Assisted Mapping	3	
NRMT	201	Forest Ecology	3	
NRMT	234	GIS Applications I	3	
NRMT	311	Natural Resource Permitting	3	
NRMT	334	GIS Applications II	3	
NRMT	493	Natural Resource Management	3	
Environ	montal C		<b>50.1</b>	
LIIVII OII	mentai 5	cience Major	52 hours	
BIOL	250	Microbiology of Diseases (OR)	52 hours	
		·	52 hours	
BIOL	250	Microbiology of Diseases (OR) Microbiology General Chemistry I		
BIOL BIOL	250 361	Microbiology of Diseases (OR) Microbiology	4	
BIOL BIOL CHEM	250 361 101	Microbiology of Diseases (OR) Microbiology General Chemistry I	4 4	
BIOL BIOL CHEM CHEM	250 361 101 102	Microbiology of Diseases (OR) Microbiology General Chemistry I General Chemistry II	4 4 4 4 4 3	
BIOL BIOL CHEM CHEM ENVR	250 361 101 102 101	Microbiology of Diseases (OR) Microbiology General Chemistry I General Chemistry II Environmental Science	4 4 4 4	
BIOL BIOL CHEM CHEM ENVR ENVR	250 361 101 102 101 193	Microbiology of Diseases (OR) Microbiology General Chemistry I General Chemistry II Environmental Science Solid Waste Management	4 4 4 4 4 3	
BIOL BIOL CHEM CHEM ENVR ENVR	250 361 101 102 101 193 255	Microbiology of Diseases (OR) Microbiology General Chemistry I General Chemistry II Environmental Science Solid Waste Management Health and Safety	4 4 4 4 3 3	
BIOL BIOL CHEM CHEM ENVR ENVR ENVR	250 361 101 102 101 193 255 351	Microbiology of Diseases (OR) Microbiology General Chemistry I General Chemistry II Environmental Science Solid Waste Management Health and Safety Soil Science	4 4 4 4 3 3 3 3	
BIOL BIOL CHEM CHEM ENVR ENVR ENVR ENVR	250 361 101 102 101 193 255 351 397	Microbiology of Diseases (OR) Microbiology General Chemistry I General Chemistry II Environmental Science Solid Waste Management Health and Safety Soil Science Work Experience II	4 4 4 4 3 3 3 1	
BIOL BIOL CHEM CHEM ENVR ENVR ENVR ENVR ENVR PHYS STAT	250 361 101 102 101 193 255 351 397 209	Microbiology of Diseases (OR) Microbiology General Chemistry I General Chemistry II Environmental Science Solid Waste Management Health and Safety Soil Science Work Experience II General Geology Introduction to Statistical Analysis	4 4 4 4 3 3 3 1 4	

General Block Electives (select from the following)

15

Courses required for the NRMT Core and selected Major will not fulfill this requirement.

BIOL any 300-499 level course

BUSN 470 Business Law II

ENVR any 300-499 level course
HIST 303 West Virginia History
LAND any 300-499 level course
MGMT any 300-499 level course
NRMT any 300-499 level course
PHYS 310 General Astronomy

SAFE 327 Legal Aspects and General Safety

STAT any 300-499 level course WLMT any 300-499 level course

Restricted Block Electives

4

See Restricted Block Electives list at the end of this catalog section.

General Electives 6 hours

Total minimum hours required for degree

120 hours

**GATEWAY ASSESSMENT - ENVR 193** 

**CAPSTONE ASSESSMENT - NRMT 493** 

# NRMT: ENVIRONMENTAL SCIENCE SUGGESTED PLAN OF STUDY

ENGL 101       3         ENVR 101       4         GEOG 203       3         GSU 100       0         MATH 115       3         Total Hours – Fall Semester       13	BIOL 121       4         CART 101       3         ENGL 102       3         NRMT 125       3         RESTRICTED BLOCK ELECTIVE       2         Total Hours – Spring Semester       15				
SECOND Y	YEAR				
CHEM 101	CHEM 102       4         ENVR 352       4         ENVR 393       3         MGMT 201       3         NRMT 334       3         Total Hours – Spring Semester       17				
SUMMER					
ENVR 3971					
THIRD Y	EAR				
BIOL 400	ART 200 (OR) MUSC 200				
FOURTH YEAR					
BIOL 250 (OR) 361	NRMT 493       3         GENERAL ELECTIVES       3         BLOCK ELECTIVES (300-499 level)       9         Total Hours – Spring Semester       15				

#### BACHELOR OF SCIENCE NATURAL RESOURCE MANAGEMENT FOREST TECHNOLOGY

GSU	100	The First Year Experience	0 hour
	A	Il degree seeking students are required to take GSU 100 during their first semester	
Genera	l Educat	tion Requirement	30 hours
		omplete BIOL 121 and MATH 115 as part of the General Education requirements.	
Natura	l Resour	ce Management Core	32 hours
BIOL	121	Principles of Biology II	
BIOL	400	Ecology and Field Biology 4	
ENVR	352	Air/Water/Soil Quality 4	
<b>ENVR</b>	393	Environmental Compliance 3	
MGMT	201	Principles of Management 3	
NRMT	125	Computer Assisted Mapping 3	
NRMT	201	Forest Ecology 3	
NRMT	234	GIS Applications I 3	
NRMT	311	Natural Resource Permitting 3	
NRMT	334	GIS Applications II 3	
NRMT	493	Natural Resource Management 3	
Forest '	Technolo	ogy Major	53 hours
FRST	103	Forest Measurements I 3	
FRST	108	Dendrology I 1	
FRST	109	Dendrology II 1	
<b>FRST</b>	110	Dendrology III 1	
<b>FRST</b>	193	Forest Measurements II 3	
<b>FRST</b>	197	Work Experience I	
<b>FRST</b>	202	Forest Recreation and Wildlife Management 3	
FRST	203	Forest Entomology and Pathology 3	
FRST	205	Wood Products, Processing and Marketing 2	
FRST	206	Timber Harvest Planning and Systems 3	
FRST	209	Silviculture and Vegetation Management 4	
FRST	212	Timber Harvesting Techniques 2	
FRST	214	Fire Protection 2	
FRST	216	Wood Identification 1	
FRST	293	Forest Management 3	
LAND	121	Introduction to Land Surveying 3	
LAND	244	Remote Sensing and Aerial Photo Interpretation 1	
PED	201	First Aid and Safety 1	
	(0 .:	1	

(Continued on next page)

General Block Electives (select from the following)

15

Courses required for the NRMT Core and selected Major will not fulfill this requirement.

BIOL any 300-499 level course

BUSN 470 Business Law II

ENVR any 300-499 level course
HIST 303 West Virginia History
LAND any 300-499 level course
MGMT any 300-499 level course
NRMT any 300-499 level course
PHYS 310 General Astronomy

SAFE 327 Legal Aspects and General Safety

STAT any 300-499 level course WLMT any 300-499 level course

General Electives (300-499 level)

5 hours

Total minimum hours required for degree

120 hours

**GATEWAY ASSESSMENT - FRST 293** 

**CAPSTONE ASSESSMENT - NRMT 493** 

# NRMT: FOREST TECHNOLOGY SUGGESTED PLAN OF STUDY

ENGL 101       3         FRST 103       3         FRST 108       1         FRST 109       1         FRST 214       2         GSU 100       0         MATH 115       3         Total Hours – Fall Semester       13	BIOL 121       4         ENGL 102       3         FRST 110       1         FRST 193       3         LAND 121       3         NRMT 234       3         Total Hours – Spring Semester       17			
SUMME	R			
FRST 1971				
SECOND Y	EAR			
FRST 203	FRST 202       3         FRST 205       2         FRST 206       3         FRST 216       1         FRST 293       3         PED 201       1         Total Hours – Spring Semester       13			
THIRD YE	ZAR			
ECON 201, GEOG 203, PSYC 201, (OR) SOCS 225	ART 200 (OR) MUSC 200			
FOURTH YEAR				
BIOL 400	ENVR 393       3         NRMT 311       3         NRMT 493       3         GENERAL ELECTIVES (300-499 level)       4         Total Hours – Spring Semester       13			

### BACHELOR OF SCIENCE NATURAL RESOURCE MANAGEMENT WILDLIFE MANAGEMENT

GSU	100 A	The First Year Experience Il degree seeking students are required to take GSU 100 during their first seme	0 hour ester.
Genera	l Educat	tion Requirement	30 hours
		omplete BIOL 121 and MATH 115 as part of the General Education requirement	ents.
<b>3.</b> 7			
		ce Management Core	32 hours
BIOL	121	Principles of Biology II	
BIOL	400	Ecology and Field Biology 4	
ENVR	352	Air/Water/Soil Quality 4	
ENVR	393	Environmental Compliance 3	
MGMT		Principles of Management 3	
NRMT	125	Computer Assisted Mapping 3	
NRMT	201	Forest Ecology 3	
NRMT	234	GIS Applications I 3	
NRMT	311	Natural Resource Permitting 3	
NRMT	334	GIS Applications II 3	
NRMT	493	Natural Resource Management 3	
Wildlife	e Manag	gement Major	56 hours
BIOL	120	Principles of Biology I 4	
ENVR	351	Soil Science 3	
FRST	103	Forest Measurements I 3	
FRST	108	Dendrology I 1	
FRST	109	Dendrology II 1	
FRST	110	Dendrology III 1	
FRST	193	Forest Measurements II 3	
FRST	202	Forest Recreation and Wildlife Management 3	
FRST	206	Timber Harvest Planning and Systems 3	
FRST	209	Silviculture and Vegetation Management 4	
FRST	212	Timber Harvesting Techniques 2	
FRST	214	Fire Protection 2	
FRST	293	Forest Management 3	
WLMT		Wildlife Law & Policy 3	
WLMT		Wildlife Habitat Management 4	
WLMT		Work Experience II	
WLMT		Mammalogy 4	
WLMT		Wildlife Techniques 3	
AA TUAT I		nued on next page)	
	( - 0	r "0"/	

Restricted Electives (select from the following)		8	
BIOL ENVR NRMT STAT 361 WLMT 302	Any 300-499 course Any 300-499 course Any 300-499 course Intro to Statistical Analysis Any 300-499 course	0-4 0-4 0-4 3 0-4	
General Electives		2	2 hours
Total minimun	120	) hours	

GATEWAY ASSESSMENT – FRST 202

**CAPSTONE ASSESSMENT – WLMT 493** 

# NRMT: WILDLIFE MANAGEMENT SUGGESTED PLAN OF STUDY

ENGL 1013	BIOL 1214
FRST 103	ENGL 102
FRST 1081	FRST 110
FRST 109	FRST 193
FRST 214	FRST 202
GSU 1000	NRMT 234
MATH 115	Total Hours – Spring Semester 17
Total Hours – Fall Semester13	Total Hours Spring Semester
SECON	D YEAR
BIOL 1204	ART 200 (OR) MUSC 2002
FRST 209	CART 101
FRST 212	FRST 206
MGMT 2013	FRST 293
NRMT 2013	HIST 201, 201, 207 (OR) 208
Total Hours – Fall Semester16	Total Hours – Spring Semester14
ECON 201, GEOG 203, PSYC 201 (OR) SOCS 225	ENGL 203, 204, 205 (OR) 206
SUM	MER
WLMT 397 <b>1</b>	
FOURT	H YEAR
BIOL 4004	
ENVR 3513	ENVR 3933
NRMT 3343	NRMT 493
WLMT 3013	WLMT 4933
WLMT 4044	RESTRICTED ELECTIVES4
Total Hours – Fall Semester 17	Total Hours – Spring Semester 13

### **Restricted Block Electives**

If any of the following restricted electives are counted toward satisfying general education, core or major hours they cannot be counted as required restricted electives.

A COT	221	D' '1 CA ' T	2
ACCT	231	Principles of Accounting I	3
ACCT	232	Principles of Accounting II	3
BIOL	120	Principles of Biology II	4
BIOL	293	Techniques of Science	2
BUSN	100	Introduction to Business	3
BUSN	193	Applied Business Communication	3
BUSN	230	Quantitative Business Analysis I	3
BUSN	270	Business Law I	3
CHEM	293	Techniques of Chemistry	1
CRJU	111	Introduction to Criminal Justice System	3
CSCI	260	Management Information Systems	3
ECON	201	Principles of Microeconomics	3
ECON	202	Principles of Macroeconomics	3
FRST	108	Dendrology I	1
FRST	109	Dendrology II	1
FRST	110	Dendrology III	1
FRST	202	Forest Recreation and Wildlife Management	3
FRST	203	Forest Entomology and Pathology	3
GEOG	203	World Regional Geography	3
GEOG	204	Physical Geography	3
LAMN	193	Principles of Energy and Land Management	3
LAMN	293	Landman Titles and Abstracting	3
LAND	121	Introduction to Land Surveying	3
LAND	123	Land Survey Descriptions-Interpretations	
		and Writing	2
LAND	124	Land Survey Boundary Law	3
LAND	243	Introduction to Drone Technology	2
LAND	244	Remote Sensing and Aerial Photo Interpretation	1
MATH	202	Calculus I	4
MATH	256	Probability and Statistics I	3
MRKT	201	Principles of Marketing	3
PHYS	201	General Physics I	4
PHYS	202	General Physics II	4
PHYS	209	General Geology	4
SCNC	101	Earth Science	4
			•

# ASSOCIATE OF SCIENCE FOREST TECHNOLOGY

GSU	100	The First Year Experience		0 hour
	Al	Il degree seeking students are required to take GSU 100 durin	ng their first semester.	
General Education Requirements				
WRITT	ΓEN ANI	D ORAL COMMUNICATION		
<b>ENGL</b>	101	Critical Reading and Writing I	3	
ENGL	102	Critical Reading and Writing II: Research Writing	3	
PROBI	LEM SO	LVING AND CRITICAL THINKING		
BIOL	121	Principles of Biology II	4	
<b>FRST</b>	108	Dendrology I	1	
MATH	115	College Algebra	3	
NRMT	201	Forest Ecology	3	
CULTI	JRE AN	D SOCIETY		
MGMT		Principles of Management	3	
PED	201	First Aid and Safety	1	
TECHN	NOLOG	V		
NRMT		GIS Application I	3	
INIXIVII	234	Ols Application I	3	
Major				36 hours
FRST	103	Forest Measurements I	3	
<b>FRST</b>	109	Dendrology II	1	
<b>FRST</b>	110	Dendrology III	1	
<b>FRST</b>	193	Forest Measurements II	3	
<b>FRST</b>	197	Work Experience I	1	
<b>FRST</b>	202	Forest Recreation and Wildlife Management	3	
<b>FRST</b>	203	Forest Entomology and Pathology	3	
<b>FRST</b>	205	Wood Products, Processing and Marketing	2	
<b>FRST</b>	206	Timber Harvest Planning and Systems	3	
<b>FRST</b>	209	Silviculture and Vegetation Management	4	
FRST	212	Timber Harvesting Techniques	2	
FRST	214	Fire Protection	2	
FRST	216	Wood Identification	1	
FRST	293	Forest Management	3	
LAND	121	Introduction to Land Surveying	3	
LAND	244	Remote Sensing Aerial Photo Interpretation	1	
Total minimum hours required for degree			60 hours	

**GATEWAY ASSESSMENT - FRST 193** 

**CAPSTONE ASSESSMENT - FRST 293** 

# FOREST TECHNOLOGY SUGGESTED PLAN OF STUDY

ENGL 101       3         FRST 103       3         FRST 108       1         FRST 109       1         FRST 214       2         GSU 100       0	BIOL 121			
MATH 1153	Total Hours - Spring Semester17			
Total Hours - Fall Semester13				
SUMMER  FRST 1971  SECOND YEAR				
FRST 203	FRST 202			
FRST 2094 FRST 2122	FRST 205			
LAND 244	FRST 216			
MGMT 201	FRST 293 3			
NRMT 201	PED 201			
Total Hours - Fall Semester16	Total Hours - Spring Semester13			

# ASSOCIATE OF SCIENCE LAND SURVEYING

GSU	100	The First Year Experience All degree seeking students are required to take GSU 100 during their first seme	0 hour ester.
General Education 24 hor			
WRITT	EN AND	ORAL COMMUNICATION	
ENGL	101	Critical Reading and Writing I 3	
ENGL	102	Critical Reading and Writing II: Research Writing 3	
PROBL	EM SOL	VING AND CRITICAL THINKING	
ENVR	101	Environmental Science (OR)	
PHYS	209	General Geology (OR)	
SCNC	101	Earth Science 4	
MATH	115	College Algebra 3	
MATH	125	College Trigonometry 3	
CULTU	JRE AND	SOCIETY	
PED	201	First Aid and Safety 1	
PED	301	Lifelong Wellness 1	
Any one	e of the fo		
ECON	201	Principles of Microeconomics	
ECON	202	Principles of Macroeconomics	
GEOG	203	World Regional Geography	
HIST	201	History of World Cultures I	
HIST	202	History of World Cultures II	
HIST	207	U.S. History to 1877	
HIST	208	U.S. History Since 1877	
POSC	203	American National Government	
PSYC	201	General Psychology	
SOCS	225	Introduction to Global Studies	
TECHN	OLOGY	7	
NRMT	125	Computer Assisted Mapping 3	
Major			36 hours
FRST	109	Dendrology II 1	
FRST	216	Wood Identification 1	
LAND	121	Introduction to Land Surveying 3	
LAND	123	Land Survey Descriptions-Interpretation and Writing 2	
LAND	124	Land Survey Boundary Law 3	
LAND	193	Survey Math and Geomatics I 3	
LAND	197	Work Experience I	
LAND	230	Surveying Math and Geomatics II 3	
LAND	231	Retracement Surveys 3	
LAND	232	Cartographic Surveying 3	
LAND	240	Route and Construction Surveys 4	
LAND	241	Energy Resource Surveying 2	
LAND	243	Introduction to Drone Technology 2	
LAND	244	Remote Sensing Aerial Photo Interpretation	
LAND	293	Survey Decisions/Professional Applications 4	
MATH	115	College Algebra	
MATH	125	College Trigonometry	

**GATEWAY ASSESSMENT - LAND 193** 

60 hours

**CAPSTONE ASSESSMENT - LAND 293** 

2024/2025 Undergraduate Catalog

Total minimum hours required for degree

# LAND SURVEYING SUGGESTED PLAN OF STUDY

ENGL 101       3         FRST 109       1         GSU 100       0         LAND 121       3         MATH 115       3         NRMT 125       3         PED 201       1         Total Hours - Fall Semester       14	FRST 216       1         GEOG 203*       3         LAND 123       2         LAND 194       3         LAND 193       3         MATH 125       3         PED 301       1         Total Hours - Spring Semester       16				
SUMMI	SUMMER				
LAND 1971					
SECOND YEAR					
ENGL 1023					
ENVR 101, PHYS 209 (OR) SCNC 1014					
LAND 2303	LAND 2404				
LAND 2313	LAND 2412				
LAND 2323	LAND 2432				
LAND 2441	LAND 2934				
Total Hours - Fall Semester17	Total Hours - Spring Semester12				